



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4711-043
Job Sheet 192127



Part No: D4711-043

Job Qty: 8 pcs

Part Name: Expandable Pin Assembly



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 3/18/19

Job Tracking No:

Due Date: 3/29/19

Created By: Chantal Lavoie

Type: Stock

Description:

Note: DWG REV D IPP REV:B 12.10.16 AS PER DWG REV.A DD VERF:JFS IPP REV:C 16.01.05 AS PER DWG REV.D DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	Sign-off
					Setup Hrs	Run Hrs		
100	Purchasing DAS	8 pcs		3/29/19	0.00	0.00	Purchasing - 1	OP MAR 21 2019
	MAR 18 2019						Purchasing - 2	
	13						Purchasing - 3	
110	Packaging 2-1 - Receive - B4B	8 pcs		3/29/19	0.00	0.00	Packaging 2 - 1 - B4B	OP MAR 21 2019
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL : 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S165057



Part: D4711 - 043

Job No: 192127

Serial No/Batch: S165057

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 03/21/19

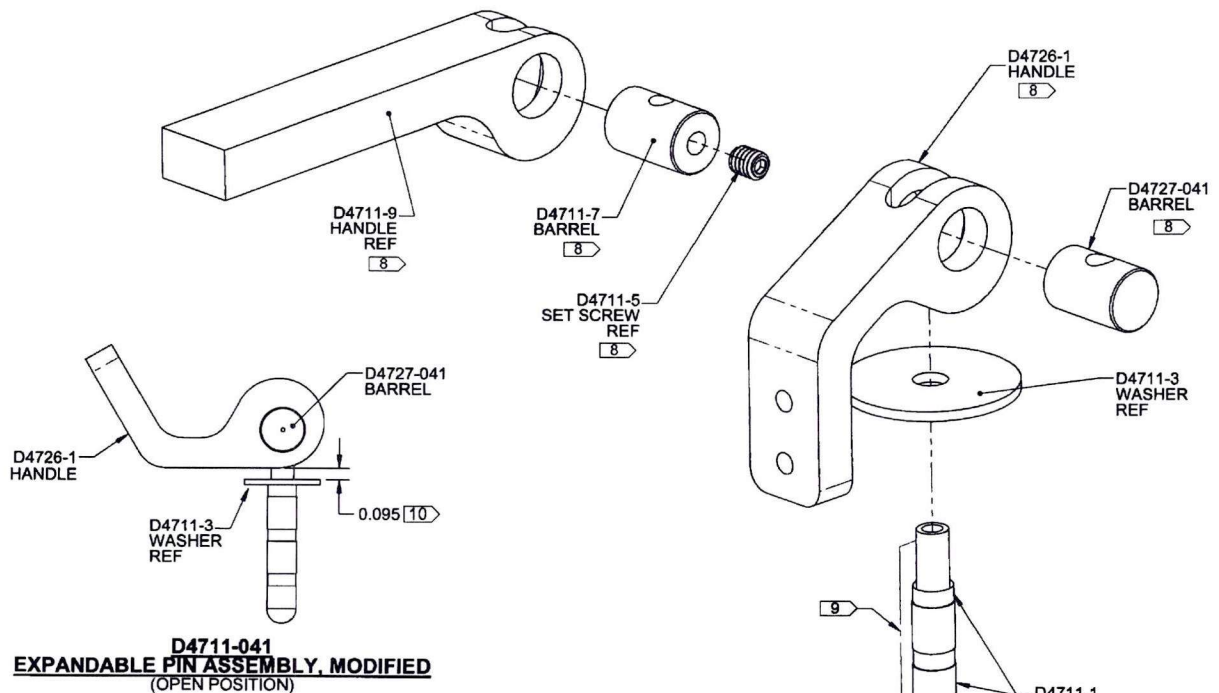
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
120 QC 6	8 pcs	3/29/19	0.00 0.00	QC 6 - 42	
				QC 6 - 9	DAS
				QC 6 - 68	MAR 25 2019 68
				QC 6 - 61	9-89
130 Packaging 3-1 - Stock - B4B	8 pcs	3/29/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	DAS
				Packaging 3 - 6 - B4B	21
				Packaging 3 - 7 - B4B	9-89
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
140 QC 21 - SA	8 pcs	3/29/19	0.00 0.00	QC 21 - SA - 21	DAS
				QC 21 - SA - 70	21
				QC 21 - SA - 53	9-89

Part Op **100** - (Purchasing) Issue P/O: 42907 Possible supplier: Mc Master Carr Supplier P/N: 97787A661
 Descriptions: **110** - (Receive & Inspect for Damage & Mat'l Certs)
120 - (QC6- All purchased or subcontracted products)
130 - (Identify as per dwg & Stock Location: _____)
140 - (QC21- Final Inspection - Work Order Release) Possible supplier: QRP INC Supplier P/N: 09094-QADPC416

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
97787A661	Expandable Pin Assembly D4711-043	8 pcs (1 ea)	100-Purchasing	S165051
Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	97787A661	8	0	0
Part Specifications				
Specifications could not be found.				

Plex 3/18/19 10:27 AM dart.lavoie.chantal

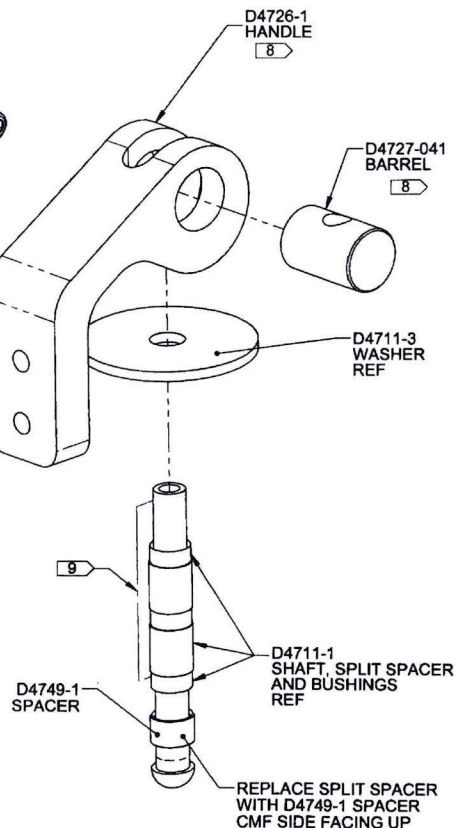
ITEM	QTY -041	P/N	DESCRIPTION
	X	D4711-041	EXPANDABLE PIN ASSY, MODIFIED
1	1	D4711-043	EXPANDABLE PIN ASSY
2	1	D4726-1	HANDLE
3	1	D4727-041	BARREL
4	1	D4749-1	SPACER



D4711-041
EXPANDABLE PIN ASSEMBLY, MODIFIED
(OPEN POSITION)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER DART QSI 044 6.7
- 7) WEIGHT: 0.22 lbs
- 8) REPLACE D4711-9 HANDLE WITH DART D4726-1 HANDLE.
REPLACE D4711-7 BARREL WITH DART D4727-041 BARREL.
REPLACE BOTTOM SPLIT SPACER WITH D4749-1 SPACER.
DISCARD D4711-5 SET SCREW, D4711-7 BARREL, D4711-9 HANDLE, BOTTOM SPLIT SPACER.
- 9) WHEN INSTALLING D4749-1 SPACER, ENSURE THAT ALL RETAINED SPLIT SPACERS AND BUSHINGS REMAIN IN THEIR ORIGINAL SEQUENCE AND ORIENTATION.
- 10) INSTALL THE D4711-1 SHAFT WITH THE ASSEMBLY IN THE OPEN POSITION, UNTIL A GAP OF 0.095" EXISTS BETWEEN THE D4711-3 WASHER AND THE D4726-1 HANDLE. DO NOT OVERTIGHTEN THE SHAFT INTO THE D4727-041 BARREL.



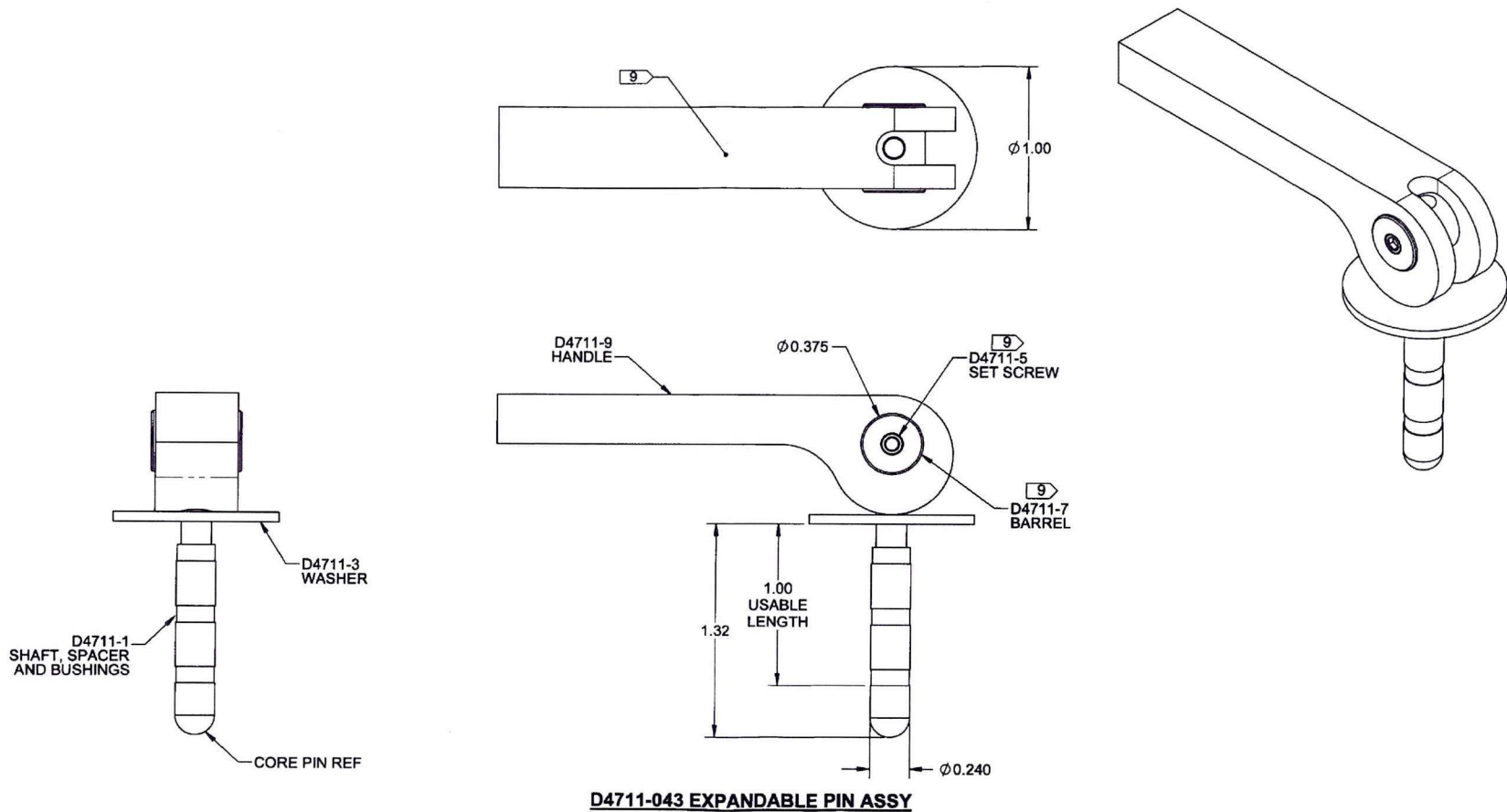
D4711-041
EXPANDABLE PIN ASSEMBLY, MODIFIED
(CLOSED POSITION)

D	GENERAL UPDATE MCMASTER CARR PART NO LONGER AVAILABLE SEE PREVIOUS REVISION AND PARTS-439 FOR DETAILS. SPLIT RINGS, CORE PIN & BARREL NOW 17-4PH H900 CONDITION.	AJS	15.07.22
C	REVISED NOTE (A4-1) & NOTE 8. ADDED NOTE 10. PICTORIAL UPDATE. ADDED VIEW B8-1.	AP	13.02.12
B	ADDED D4749-1 SPACER, MODIFIED NOTES 8 AND 9	AP	12.11.23
A	NEW ISSUE	RP	12.09.19
REV.	DESCRIPTION	BY	DATE
DESIGN	RP	DART AEROSPACE USA, INC. KENT, WA	
DRAWN	AJS		
CHECKED	CP	DRAWING NO.	REV. D
MFG. APPR.	JLM	D4711	SHEET 1 OF 2
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	ADJUSTABLE DIAMETER PIN	NTS
DATE	15.07.22	COPYRIGHT © 2012 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRELIMINARY AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

RELEASED
2016-01-05
ECN 15-614

APPROVED

SPECIFICATION CONTROL DRAWING



NOTES:

- 1) MATERIAL: CORE PIN, SPLIT RINGS AND BARREL: STAINLESS STEEL 17-4 PH CONDITION H900 PER AMS 5643 $\triangle$
- 2) FINISH: N/A
- 3) TOLERANCES: N/A
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.17 lbs
- 8) SUPPLIER: QRP INC, 2307 MERCANTILE DR. N.E., LELAND, NORTH CAROLINA, 28451. P/N: 09094-QADPC416 $\triangle$
- 9) HANDLE, BARREL AND SET SCREW TO BE DISCARDED AT NEXT HIGHER ASSEMBLY

RELEASED
2016-01-05

APPROVED

DESIGN	RP	DART AEROSPACE USA, INC.	
DRAWN	AJS	KENT, WA	
CHECKED	CP	DRAWING NO.	REV. D
MFG. APPR.	JLM	D4711	SHEET 2 OF 2
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	ADJUSTABLE DIAMETER PIN	NTS
DATE	15.07.22	COPYRIGHT © 2012 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042907



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042907

PO Date: 3/18/19

Due Date: 3/22/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

REVISED

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		188-FPSS-832-1/4	92311A190 100 pcs per pk	Set Screw	Firmed	-	3/22/19	100 Ea	0 Ea	100 Ea	\$0.0451/Ea	\$4.51
2		8574K85		Clear Polycarbonate Sheet, 48" x 48" x 1/4" Thick	Firmed	-	3/22/19	16 sf	0 sf	16 sf	\$8.67875/sf	\$138.86
<i>16x MAR 20 2019</i>												
Line Item Note 1 pcs of 48" x 48"												
3		8997K11	8997K312 24 x 24"	Cushion w/Adhesive Back 60A durometer	Firmed	-	3/22/19	4 sf	0 sf	4 sf	\$42.185/sf	\$168.74
<i>X4 MAR 19 2019 DP</i>												
Line Item Note 1 pcs of 24" x 24"												
4		97524A032	100/pk	Sealing Blind Rivet	Firmed	-	3/22/19	200 Ea	0 Ea	200 Ea	\$0.0982/Ea	\$19.64
<i>Rec'd 196x X200 MAR 19 2019 DP</i>												
5		EL-PLUG-F	7216k6 1/pk color yellow	3-Prong Female Spade Plug	Firmed	-	3/22/19	10 Ea	0 Ea	10 Ea	\$12.23/Ea	\$122.30
<i>X10 MAR 19 2019 DP</i>												
6		EL-PLUG-M	7216k5 1/pk color yellow	3-Prong Male Spade Plug	Firmed	-	3/22/19	10 Ea	0 Ea	10 Ea	\$7.03/Ea	\$70.30
<i>X10 MAR 20 2019 DP</i>												
7		90087A145	100/pk	Pan Head Screw 6-32 X 5/16	Firmed	-	3/22/19	100 Ea	0 Ea	100 Ea	\$0.0716/Ea	\$7.16
<i>Rec'd 98x X100 MAR 20 2019 DP</i>												



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PURCHASE ORDER

PO042907



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
8		3495T51	1/pk	Heavy Duty Wire Rope Thimble - for Lifting, 18-8 Stainless Steel, for 5/8" Rope Diameter	Firmed	-	3/22/19	20 Ea	0 Ea	20 Ea	\$15.90/Ea	\$318.00
Line Item Note BRING PAT. LUSSIER												
9		6093-10	76475A91 3 FT	Low-Friction Tape Made with Teflon® PTFE, Heavy Duty, 1" Wide, 3 Feet Long, 0.022"	Firmed	-	3/22/19	6 Ea	0 Ea	6 Ea	\$6.896666/Ea	\$41.38
Line Item Note 2 PCS OF 3 FT												
10	192126	93695K58	50 ft	Window Seal D3802-1	Firmed	-	3/22/19	50 ft	0 ft	50 ft	\$0.323/ft	\$16.15
Line Item Note AS PER DWG D3802 REV. D												
11	192127	97787A661		Expandable Pin Assembly D4711-043 receive pcs	Firmed	-	3/22/19	8 pcs	0 pcs	8 pcs	\$114.68/pcs	\$917.44
Line Item Note AS PER DWG D4711 REV. D												
12	192129	D3373-7P	1770A725 KEYED ALIKE	Cam Lock	Firmed	-	3/22/19	10 Ea	0 Ea	10 Ea	\$7.51/Ea	\$75.10
Line Item Note AS PER DWG D3373 REV. A												
13	192128	D2484P	91343A100 10/pk	Lock Nut	Firmed	-	3/22/19	40 pcs	0 pcs	40 pcs	\$0.363/pcs	\$14.52
Line Item Note AS PER DWG D2484 REV. A												
14	192125	7130K41	100/pk	Tie Wrap	Firmed	-	3/22/19	100 pcs	0 pcs	100 pcs	\$0.0583/pcs	\$5.83
Line Item Note AS PER DWG D3599 REV. A												
15	192124	59915K274		Rod End Bearing D4777-1 : AS PER DWG D4777 REV. A	Firmed	-	3/22/19	20 pcs	0 pcs	20 pcs	\$19.05/pcs	\$381.00
16		601.2045	6641A41	RTV (LOCTITE 598) : RTV, Loctite 598	Firmed	-	3/22/19	10 Ea	0 Ea	10 Ea	\$16.43/Ea	\$164.30
Line Item Note EXP: DATE REQUIRED AT LEAST 60%												

Plex 3/19/19 1:50 PM dart.lavoie.chantal



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Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042907



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
Grand Total:												\$2,465.23

Order Notes

Procurement Quality Clauses
 A005 RIGHT OF ENTRY
 A016 PERSONNEL QUALIFICATION
 A026 CERTIFICATION OF MATERIAL CONFORMANCE
 A032 DOCUMENT SPECIAL REQUIREMENTS
 A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
 A040 NOTIFICATION OF QUALITY ESCAPE
 A041 QUALITY MANAGEMENT SYSTEM
 A042 DART NOTIFICATION BY SUPPLIER
 A043 RETENTION OF QUALITY DOCUMENTS

 A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
 A049 SUPPLIER AWARENESS

CL

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/19/19 1:50 PM dart.lavoie.chantal



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042907

Order Placed By
Chantal Lavoie

McMaster-Carr Number
1579604-01

Page 1 of 2

03/18/2019

Line	Product	Ordered	Shipped
1	92311A190 18-8 Stainless Steel Cup-Point Set Screw, 8-32 Thread, 1/4" Long, Packs of 100	1 Pack	1
10	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length	8 Each	7

Shipped separately from our Cleveland warehouse on 03/18

2	8574K85 Clear Polycarbonate Sheet, 48" x 48" x 1/4"	1 Each	1
3	8997K312 Abrasion-Resistant Polyurethane Rubber, Adhesive-Back Sheet, 24" x 24", 1/8" Thick, 60A Durometer	1 Each	1
4	97524A032 Sealing Blind Rivets, Domed Head, with Aluminum Mandrel, 1/8" Diameter, 0.425" Long	2 Packs	2
5	7216K6 Hinged Straight-Blade Housing, 3-Slot Socket, NEMA 5-15, Yellow	10 Each	10
6	7216K5 Hinged Straight-Blade Housing, Hinged, 3-Blade Plug, Grounded, NEMA 5-15, Yellow	10 Each	10
8	76475A91 Low-Friction Tape Made with Teflon PTFE, Heavy Duty, 1" Wide, 3 Feet Long, 0.022" Overall Thickness	2 Each	2
9	93695K58 Flame-Retardant Oil-Resistant Blended Buna-N Foam, Adhesive Back Strip, 1" x 50 Feet, 1/4" Thick	1 Each	1
10	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length	8 Each	1
11	1770A725 Zinc Keyed Cam Lock, Nickel-Plated, Key #C420A for 1-7/16" Maximum Thickness, Clockwise	10 Each	10
12	91343A100 316 Stainless Steel Serrated Flange Locknut, Super-Corrosion-Resistant, 1/4"-20 Thread Size	4 Packs	4
13	7130K41 Nylon Cable Tie, 6" Long, 1-1/2" Bundle Diameter, 10 lb. Break Strength, White	1 Pack	1
14	59915K274 Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	20 Each	20

DAS
68
9-89

Packing List

201 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042907

Order Placed By
Chantal Lavoie

McMaster-Carr Number
1579604-01

Page 2 of 2

03/18/2019

Line	Description	Ordered	Shipped
15	6641A41 Flexible Gasket Maker Sealant, Loctite 598, 2.36 oz. Tube	10 Each	10

Expected to ship

7	3495T51 Heavy Duty Wire Rope Thimble - for Lifting, 18-8 Stainless Steel, for 5/8" Rope Diameter	20 Each	20 Mar 20-21
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200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

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Purchase Order
PO042907

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Chantal Lavoie

McMaster-Carr Number
1579604-04

Page 1 of 2

03/18/2019

Line	Product	Ordered	Shipped
4	97524A032 Sealing Blind Rivets, Domed Head, with Aluminum Mandrel, 1/8" Diameter, 0.425" Long, Packs of 100	2 Packs	2
5	7216K6 Hinged Straight-Blade Housing, 3-Slot Socket, NEMA 5-15, Yellow	10 Each	10
6	7216K5 Hinged Straight-Blade Housing, Hinged, 3-Blade Plug, Grounded, NEMA 5-15, Yellow	10 Each	10
8	76475A91 Low-Friction Tape Made with Teflon PTFE, Heavy Duty, 1" Wide, 3 Feet Long, 0.022" Overall Thickness	2 Each	2
9	93695K58 Flame-Retardant Oil-Resistant Blended Buna-N Foam, Adhesive Back Strip, 1" x 50 Feet, 1/4" Thick	1 Each	1
10	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length	8 Each	8
11	1770A725 Zinc Keyed Cam Lock, Nickel-Plated, Key #C420A for 1-7/16" Maximum Thickness, Clockwise	10 Each	10
12	91343A100 316 Stainless Steel Serrated Flange Locknut, Super-Corrosion-Resistant, 1/4"-20 Thread Size, Packs of 10	4 Packs	4
13	7130K41 Nylon Cable Tie, 6" Long, 1-1/2" Bundle Diameter, 10 lb. Break Strength, White, Packs of 100	1 Pack	1
14	59915K274 Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	20 Each	20
15	6641A41 Flexible Gasket Maker Sealant, Loctite 598, 2.36 oz. Tube	10 Each	10

Shipped separately from our Cleveland warehouse on 03/18

2	8574K85 Clear Polycarbonate Sheet, 48" x 48" x 1/4"	1 Each	1
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Shipped separately from our New Jersey warehouse on 03/18

1	92311A190 18-8 Stainless Steel Cup-Point Set Screw, 8-32 Thread, 1/4" Long	1 Pack	1
10	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length	8 Each	7

one 90

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
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Dart Aerospace Ltd
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Canada

Purchase Order
PO042907
Order Placed By
Chantal Lavoie
McMaster-Carr Number
1579604-04

Page 2 of 2
03/18/2019

Expected to ship

7	3495T51	Heavy Duty Wire Rope Thimble - for Lifting, 18-8 Stainless Steel, for 5/8" Rope Diameter	20 Each	20 Mar 20-21
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